

SkyBuild™

**OTIS**



# Complete your building faster with SkyBuild

We know what it takes to put up a high-rise building – we've got years of construction experience ourselves. That's why we created the SkyBuild™ internal construction elevator – to speed construction and save you money. The SkyBuild elevator gets crews and materials where they need to be quickly and safely, without a crane, without an external lift and without exposure to the weather. Our unique technology enables the SkyBuild elevator to climb one floor at a time as your building rises. Each jump can be accomplished between shifts, reducing the impact on other trades. And once construction is complete, your SkyBuild elevator goes directly into service as a SkyRise® elevator.

## **Substantial benefits at every stage of construction**

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Jumps in one-floor increments to keep pace with construction

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Uses our exclusive hydraulic-piston system, eliminating the need for a crane

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Jumps during off-hours so other trades can keep working

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Enables crews to close off the building façade as each floor is added

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Quickly converts into a SkyRise elevator upon the building's completion

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# A faster, safer way to the top

## 1 Built-in overhead protection

Safety first! An angled deck above the entire SkyBuild system protects crews from falling objects and other potential overhead hazards.

## 2 Working platform

Otis crews use the working platform to install additional elevator rails to allow the SkyBuild to climb as construction progresses.

## 3 Platform for controller, drive and traveling cable

The controller, drive and traveling cable sit on a platform directly above the machine platform; like the machine platform, this platform climbs in one-floor increments as construction progresses. When the building is complete, these components are moved to the permanent machine room.

## 4 Machine platform

The SkyBuild elevator converts into a conventional SkyRise elevator upon the building's completion – powered by the same SkyMotion® machine used during construction. The moveable platform supporting the machine becomes part of the permanent machine room.

## 5 Platform for hydraulic piston

Our exclusive hydraulic-piston system is at the heart of the SkyBuild system, smoothly moving the entire assembly upward in one-floor increments. It enables each move to be accomplished between shifts.

## 6 Retractable support beams

The SkyBuild system is held in place by retractable support beams that rest on the floor plate or within wall pockets. These beams are retracted during the climbing operation.

## 7 SkyBuild cab

The fully operational construction elevator serves all floors below the SkyBuild assembly and quickly converts into a permanent SkyRise cab once construction is complete.

## Specifications

3.5  
meters per second  
Maximum speed

1600  
kilograms  
Maximum duty

300  
meters  
Maximum rise

7  
floors  
Minimum height to install

1  
floor  
Minimum height for each jump

7  
floors  
Top landing distance from slip form

Between  
shifts  
Time to execute jump

3  
floors  
Top landing distance from finished machine room



## Jump operation

The SkyBuild elevator's machine platform shown in jump mode, with the piston extended and the support beams retracted. Crews control the jump from outside the hoistway.



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SkyBuild was the smart solution for us. It shortened our schedule and reduced our costs. The Otis team brought tremendous knowledge to the job.

**Philippe Rouchette**

Project Director, Tour Granite, Paris  
VINCI Construction France

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## Mega-projects deserve a mega-team

Every SkyBuild project has the support of our global projects organization. This organization supports our local and regional offices in more than 200 countries and territories. From start to finish, our dedicated experts collaborate with your team to keep things on track. Standing with them are nearly 2,000 Otis R&D engineers ready to solve any imaginable challenge.

Make the SkyBuild system work for your building – and your business



**Otis Elevator Company** is the world's leading manufacturer and maintainer of elevators, escalators and moving walkways.

Founded more than 160 years ago by the inventor of the safety elevator, Otis offers products and services through its companies in more than 200 countries and territories, and maintains approximately 2 million elevators and escalators worldwide. Every day, Otis moves more than 2 billion people through the world's urban landscapes.

Otis is a unit of United Technologies Corp. (UTC), a leader in the global building systems and aerospace industries.

For more information, visit [www.otis.com](http://www.otis.com) and follow us on Twitter @OtisElevatorCo.



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CHN-EN-0416

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